CLAIMS

What is claimed is:

- Oxcarbazepine Form B.
- Oxcarbazepine having a PXRD diffraction pattern with peaks at about 11.9, 14.4, 20.0, 23.0, 25.1 ± 0.2 degrees two-theta.
- The oxcarbazepine of claim 2 having a PXRD diffraction pattern with peaks at about 11.9, 14.4, 17.7, 19.4, 20.0, 21.1, 23.0, 24.0, 24.4, 25.1, 26.0 ± 0.2 degrees two-theta.
- The oxcarbazepine of claim 3 having a PXRD diffraction pattern substantially as depicted in figure 1.
- A process for preparing oxcarbazepine Form B comprising the steps of:
 - a) preparing a solution of oxcarbazepine in a mixture of dichloromethane and toluene, and
 - evaporating the toluene and the dichloromethane leaving Form B as a residue.
- The process of claim 5, wherein the solution is prepared by dissolving oxcarbazepine in dichloromethane and adding the dichloromethane to toluene.
- 7. The oxcarbazepine Form B prepared by the process of claim 5.
- 8. A process for preparing oxcarbazepine Form B comprising the steps of:
 - a) preparing a solution of oxcarbazepine in toluene;
 - b) heating the solution;

- c) cooling the solution at a rate of 60 °C min⁻¹ or above to cause formation of a precipitate; and
- d) separating the precipitate.
- 9. The process of claim 8, wherein the solution is heated to about reflux.
- The process of claim 8, wherein the solution is cooled to a temperature of about 0°C.
- 11. The oxcarbazepine Form B prepared by the process of claim 8.
- Oxcarbazepine Form C.
- Oxcarbazepine characterized by PXRD peaks at about 11.7, 21.7, 23.2, 24.4 ± 0.2 degrees two-theta
- 14. The oxcarbazepine of claim 13 characterized by PXRD peaks at about 11.7, 17.0, 18.0, 21.7, 23.2, 24.4, 26.0 \pm 0.2 degrees two-theta.
- The oxcarbazepine of claim 14 characterized by a PXRD diffraction pattern substantially as depicted in figure 2.
- 16. A process for preparing oxcarbazepine Form C comprising the steps of:
 - a) preparing a solution of oxcarbazepine in toluene;
 - b) heating the solution;
 - c) cooling the solution at a rate of from about 20 to 60°C min. 1 to cause formation of a precipitate; and
 - d) separating the precipitate.
- 17. The process of claim 16, wherein the solution is cooled at a rate of about 40°C

per minute.

- 18. The process of claim 16, wherein the solution is cooled to about 0°C.
- 19. The process of claim 16, wherein the solution is heated to about reflux.
- 20. The oxcarbazepine Form C prepared by the process of claim 16.
- 21. Oxcarbazepine Form D.
- Oxcarbazepine characterized by PXRD peaks at about 11.7, 14.2, 24.3 ± 0.2 degrees two-theta.
- The oxcarbazepine of claim 22 characterized by a PXRD diffraction pattern substantially as depicted in figure 3.
- 24. A process for preparing oxcarbazepine Form D comprising the steps of:
 - a) preparing a solution of oxcarbazepine in toluene; and
 - b) evaporating the toluene leaving a residue of oxcarbazepine Form D.
- The process of claim 24, further comprising a step of heating the solution before evaporating.
- 26. The process of claim 25, wherein the solution is heated to about reflux.
- The process of claim 25, further comprising cooling the heated solution before evaporating.
- 28. The process of claim 27, wherein the solution is cooled to about 0°C.

- 29. The process of claim 24, further comprising a step of cooling the solution.
- 30. The process of claim 29, wherein the solution is cooled to about 0°C.
- The process of claim 24, wherein the toluene is removed from the solution by evaporation.
- 32. The oxcarbazepine Form D prepared by the process of claim 24.
- 33. An oxcarbazepine chloroform solvate.
- 34. Oxcarbazepine chloroform solvate Form E.
- 35. An oxcarbazepine chloroform solvate characterized by a PXRD pattern with peaks at about 14.5, 15.0, 18.2, 21.4, 22.9, 24.0, 25.8, 26.0 ± 0.2 degrees two-theta
- 36 The oxcarbazepine solvate of claim 35 characterized by a PXRD diffraction pattern substantially as depicted in figure 4.
- The oxcarbazepine chloroform solvate of claim 33 containing about a 27 weight % chloroform.
- 38. A process for preparing oxcarbazepine chloroform solvate comprising:
 - a) causing formation of a precipitate from a solution of oxcarbazepine in chloroform, and
 - separating the precipitate.
- The process of claim 38, further comprising a step of heating the solution before causing formation of the precipitate.

- 40. The process of claim 39, further comprising a step of cooling the heated solution, whereby cooling causes formation of the precipitate.
- The process of claim 39, wherein the solution is heated to an elevated temperature of from about 50°C to about 60°C.
- The process of claim 41, wherein the solution is heated to an elevated temperature of about 55°C.
- The process of claim 41, wherein the heated solution is cooled to a reduced temperature of from about 10°C to about 20°C.
- 44. The process of claim 43, wherein the reduced temperature is about 16°C.
- 45. The oxcarbazepine chloroform solvate produced by the process of claim 37.
- 46. A process for preparing oxcarbazepine Form A comprising:
 - a) providing oxcarbazepine chloroform solvate Form E,
 - b) heating the oxcarbazepine chloroform solvate, and
 - c) recovering oxcarbazepine as Form A.
- 47. The process of claim 46, wherein the oxcarbazepine solvate Form E is heated to an elevated temperature in the range of from about 40°C to about 80°C.
- 48. The process of claim 47, wherein the elevated temperature is about 60°C.
- 49. A process for preparing oxcarbazepine Form A comprising
 - a) providing oxcarbazepine Form B,
 - b) heating the oxcarbazepine, and

- c) recovering the oxcarbazepine as Form A.
- The process of claim 49, wherein oxcarbazepine Form B is heated to an elevated temperature in the range of from about 60°C to about 120°C.
- 51. The process of claim 50, wherein the elevated temperature is about 60°C.
- 52. A process for the preparation of oxcarbazepine Form C comprising
 - a) providing oxcarbazepine Form B,
 - maintaining the oxcarbazepine at a temperature in the range of from about 20 to about 30°C, and
 - c) recovering the oxcarbazepine as Form C.
- A process for preparing oxcarbazepine Form A comprising:
 - a) contacting oxcarbazepine selected from the group consisting of oxcarbazepine Form B, oxcarbazepine Form C and oxcarbazepine Form D with a protic solvent, and
 - b) recovering oxcarbazepine as Form A.
- The process of claim 53, wherein the forms of oxcarbazepine are suspended in the protic solvent.
- 55. The process of claim 53, wherein the protic solvent is selected from the group consisting of water and ethanol.
- The process of claim 54, wherein the oxcarbazepine is suspended in the protic solvent from about two hours to about three days.
- The process of claim 56, wherein the oxcarbazepine is suspended for about one day.

- 58. A pharmaceutical composition comprising:
 - a) oxcarbazepine selected from the group consisting of oxcarbazepine
 Form B, oxcarbazepine Form C, oxcarbazepine Form D and
 oxcarbazepine Form E; and
 - b) a pharmaceutically acceptable excipient.
- The pharmaceutical composition of claim 58, wherein the composition is mixed with one or more forms of oxcarbazepine.
- A pharmaceutical dosage form comprising the pharmaceutical composition of claim 58.
- The pharmaceutical dosage form of claim 60, wherein the dosage form is a capsule or tablet.
- The pharmaceutical dosage form of claim 61, wherein the dosage form is a tablet.
- 63. The pharmaceutical dosage form of claim 60, containing a unit dosage of about 150mg to about 600mg oxcarbazepine.
- 64. The pharmaceutical dosage form of claim 63, containing a unit dosage selected from the group consisting of about 150mg, 300mg and 600mg.
- The pharmaceutical dosage form of claim 60, wherein the dosage form is an oral suspension.
- 66. The pharmaceutical dosage form of claim 65, wherein the dosage is about 60mg ml⁻¹.

- The pharmaceutical dosage form of claim 66, wherein the dosage is about 300mg ml⁻¹.
- A method of preventing or reducing the severity of seizures comprising administrating the pharmaceutical composition of claim 58.
- 69. The method of claim 68, wherein the seizures are associated with epilepsy.
- A method of treating Parkinson's disease comprising administrating the pharmaceutical composition of claim 58.
- A method of depressing the central nervous system comprising administering the pharmaceutical composition of claim 58.
- The method of claim 71, wherein the central nervous system is depressed by blocking voltage sensitive sodium channels.